Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1,2,

- 1. (Currently Amended) A modified gp120 polypeptide comprising portions of at least two conserved regions of an envelope protein selected from a primate lentivirus the group of lentiviruses consisting of HIV-1, HIV-2 and SIV, wherein at least one of the following changes relative to the wild-type to gp120 protein is made:
 - (a) introduction of disulfide bonds to decrease the free energy of folding relative to the wild type gp120 protein;
- (b) filling a cavity of the gp120 protein with hydrophobic amino acid residues; or
 - (c) introducing a Pro residue at a defined turn structure; or
- (d) increasing the hydrophobicity across the interface between the gp120 domains,

wherein the modified polypeptide maintains the overall 3-dimensional structure of a discontinuous conserved epitope of the wild-type gp120, wherein the discontinuous conserved epitope is a CD4BS epitope, CD4i epitope or 2G12 epitope.

- 2. (Original) The modified gp120 polypeptide of claim 1, wherein the discontinuous conserved epitope is a CD4BS epitope or CD4i epitope.
 - (Canceled)
- 3 4. (Original) The modified gp120 polypeptide of claim 3, wherein the gp120 protein is HIV-1.
- of 5. (Original) The modified gp120 polypeptide of claim 4, wherein disulfide bonds are introduced between at least one of the groups of amino acids that correspond to Pro118-Ala443, Leu122-Gly431, Phe210-Gly30, or Ser256-Phe376 of the HIV-1 HXBc2 strain.
- 6. (Original) The modified gp120 polypeptide of claims 4 or 5, wherein at least one amino acid residue corresponding to wild-type gp120 Ser375, Val255, Arg273, Ser481,

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Ser447, Asn377 of the HIV-1 HXBc2 strain, Thr283, or Asp477 of the HIV-1 HXBc2 strain, has been substituted with a hydrophobic amino acid residue.

(Original) The modified gp120 polypeptide of claim 6, wherein at least one of the following amino acid substitutions is present:

Trp for Ser375, Val255 or Arg 273;

Phe for Ser481;

Ile for Ser447 or Thr283;

Or Leu for Asn377 or Thr283.

- (Original) The modified gp120 polypeptide of claim 6, wherein a Pro residue has been introduced at a defined turn structure.
- (Original) The modified gp120 polypeptide of claim 5, wherein a Pro residue has been introduced at a defined turn structure.
- Q 10. (Original) The modified gp120 polypeptide of claim 4, wherein a Pro residue has been introduced at a defined turn structure.
- (1) 1. (Original) The modified gp120 polypeptide of claim 8, wherein a Pro residue has been substituted for Ile423.
- (Original) The modified gp120 polypeptide of claim 9, wherein a Pro residue has been substituted for Ile423.
- (Original) The modified gp120 polypeptide of claim 10, wherein Pro has been substituted for Ile423.
- (Original) The modified gp120 polypeptide of claim 1, wherein at least two of the changes have been made.
 - (Canceled)
- (Original) The modified gp120 polypeptide of claim 15, wherein at least three of the changes have been made.
- (New) The modified gp120 polypeptide of claim 1 wherein the cavity of the gp120 protein corresponds to Phe43 of the wild type HIV-1, HXBc2 strain.

